PFAS Marinette, Peshtigo, and Surrounding Communities

Listening Session 13

What to Expect during this Listening Session

Zoom Meeting Logistics

• All attendees are automatically muted when they join the call
• Joining by **web**:
  • During the presentation – use ‘chat’ feature to type questions
  • After presentation – use the ‘chat’ feature or ‘raise hand’ feature to request to be unmuted to ask a call
• Joining by **phone**:
  • *6 mute/unmute
  • *9 raise hand

To ask a question, use the “Raise Hand” button; you’ll be unmuted when appropriate.

“Chat” questions will be sent privately to the meeting host.
Team Members

DNR - Remediation and Redevelopment
- Bridget Kelly, Emerging Contaminants
- Christine Haag, Director
- Alyssa Sellwood, Complex Sites Project Manager
- Jodie Peotter, Brownfields Outreach Section Chief
- Trevor Nobile, Field Operations Director
- Jenna Soyer, Program and Policy Operations Director

DNR - Drinking Water And Groundwater
- Kyle Burton, Field Operations Director

DNR - Water Quality
- Heidi Schmitt-Marquez, NER Supervisor
- Alexis Peter, Wastewater Specialist
- Laura Gerold, Wastewater Engineer
- Adrian Stocks, Director

Department of Health Services
- Brita Kilburg-Basnyat, Toxicologist
- Amanda Koch, Health Educator

Staying Connected

Today - 13th in series of sessions
- Meetings every other month
- Previous meeting recordings available
- Next meeting in May

Website and FAQs
- DNR homepage search ‘PFAS Marinette’
- Sign-up for updates

Other options for contacting DNR
- Call (888-626-3244) or
- email DNRJCIPFAS@wisconsin.gov
Welcome and Agenda

Presentation:
• Community Questions
• Site Investigation Updates
• Updates on DNR Private Potable Well Sampling in Expanded Site Investigation Area
• Upcoming Important Dates

Listening Session:
• Question + Answer Session
Community Questions

JCI/Tyco Class Action Settlement

- DNR not a party to the settlement
- DNR cannot intervene
- DNR cannot provide legal advice to individuals
- For more information, refer to message sent email subscription list March 15 and posted to website
Responsible Party - Expanded Site Investigation Area

- DNR sampling wells due to JCI/Tyco refusal
- JCI/Tyco remains responsible
- If JCI/Tyco does not take required actions:
  - DNR will continue to provide emergency replacement water by extending 6-month water supply to those with impacted wells in this area
Long Term Water Options

Water Options – Clarifications

- **Municipal water** – preferred long-term solution
  - No O&M for individual residents
  - Water quality and availability is consistent over time
  - Preferred outcome for JCI/Tyco and DNR

- **POETS** – effective solution; challenges for long-term
  - Extensive O&M required
  - May be expensive
  - No mechanism to ensure water quality protections are in place after sale of property

- **Deep Wells** – contamination may still be an issue
  - Limited deep aquifer investigation (unknown if PFAS are presently at those depths or could be in the future)
  - Other aesthetic and water quality issues that could require treatment (e.g. iron, manganese, sulfates, radium)
  - May have limited capacity to supply water
DNR’s Role

- Provide regulatory oversight of responsible parties
- Oversee responsible party actions
- Review submittals and provide technical comments
- Work with TOP Town Board to answer questions about next steps with long-term water

DNR Cannot:

- Select the long-term water option for the community
- Require that a municipality provide water to impacted residents outside their service area
- Negotiate an agreement between communities
- Manage a trust fund set up by an RP
JCI/Tyco’s Responsibility

Follow applicable state laws:
• Determine extent of contamination – close significant data gaps
  • Critical for determining who needs long term water supply
  • Site Investigation is not yet complete
• Provide immediate and interim solutions to address contamination
  • Bottled water + POETS to impacted residents
  • In-stream Treatment Systems
  • Pump and Treat System

Follow applicable state laws (cont.):
• Conduct an evaluation of the long-term water options available
  • Resubmit RAOR
  • Proposed solution must consider many factors and be fully implementable
  • Get options evaluation approved
  • Develop Remedial Action Plan
• Develop a plan to address/clean-up contamination (restore the environment)
TOP Role

- If the Town’s preference is to receive water from a nearby municipality
  - Write a letter specifically requesting water from the municipality
  - Begin discussions with municipality
- Engage with impacted residents to determine desired long-term water solution

Role of Impacted Residents

- Participate in public meetings – the voice of impacted residents needs to be heard
- Learn about which options provide the greatest long-term protection against contamination
  - Municipal water
  - POETS
  - Deep Wells
- Provide input to Town leadership on preferred options
What’s Happened So Far?

- JCI/Tyco analysis of 8 alternatives – submitted report (RAOR) in May 2019 and October 2019
  - Identified City of Marinette municipal water as most feasible option and preference
- DNR responses:
  - RAOR not approved (July 2019 and Dec 2019)
  - Is it implementable?
  - Resident engagement must happen
  - Do not leave affected citizens out of a permanent solution based on projections of impacts
- JCI/Tyco has paid for TOP third party environmental evaluation of municipal solutions

What’s Next

- JCI/Tyco needs to submit a complete RAOR report evaluating water options for approval by DNR
- Neighboring communities would need an intergovernmental agreement
- Once solution is determined and agreed upon....
  - Public Engagement
  - Design
  - Permitting
  - Construction
DNR Potable Well Sampling Program

**Background**

- Sampling started fall 2020 - expanded site investigation area
- Inform residents about potential PFAS in drinking water wells
- 307 wells sampled to date
  - ND: 77 wells
  - < RES: 216 wells
  - ≥ RES: 14 wells
DNR Potable Well Sampling Program

Resume Sampling March – June 2021
• Not completed Last Fall
  • Indoor access only
  • Seasonal properties
• Second Round Sampling
  • 200+ residents that we have not heard from yet
  • Second mailer sent – request to sample potable wells
  • Respond by April 2nd, 2021

DNR Potable Well Sampling Program
Confirmation Sampling
• Re-sampling wells already tested
• Wells with sample results between 10% RES* and RES
• Example:
  • PFOS RES = 20 ppt
  • PFOS in well between 2ppt and 19.99ppt will be resampled
• For all 18 PFAS with recommended standards
• 100+ properties – more as sampling continues

*RES = Recommended Enforcement Standard
DNR Potable Well Sampling Program

- Responsible party – ESIA
  - DNR sampling due to JCI/Tyco refusal
  - What happens next – JCI/Tyco needs to take on responsibility
- Alternative water supply to impacted wells
  - 6-month water supply extended if JCI/Tyco does not take responsibility
DNR Response to JCI/Tyco’s Air Pathway Evaluation

• DNR Identified 5 Data Gaps
• JCI/Tyco to Submit Work Plan to Address the Data Gaps (due April 26th)
• Critical Piece of the Site Investigation

Why Important?
PFAS migration in air is possible, & PFAS impacts from air may have a unique pattern that differs from the primary groundwater plume.

DNR’s February 23, 2021 Response to JCI/Tyco on the Air Pathway can be found at link below:

JCI/Tyco’s Proposed (GETS)

• Groundwater Extraction and Treatment System
• Design Report Received February 26th
• DNR RR Program Reviewing
• Other DNR Program Permits (Pending Submittal)
  • Wetlands
  • WPDES Discharge
  • Hi-Cap Well Application

GETS document can be found at link below:
Excerpt from Appendix B of JCI/Tyco’s Remedial Action Design Report

**JCI/Tyco’s Proposed Groundwater Extraction & Treatment System (GETS)**

1. **Extraction**
   - Nine Wells ~ 50 ft deep
   - Pump ~ 25 gpm/well
   - Pipe to Treatment Bldg

2. **Treatment**
   - Filter
   - Carbon
   - Ion Exchange Resin

3. **Discharge**
   - Water to Ditch B

4. **Long-Term Monitoring**
   - Groundwater
   - Surface Water

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**Estimated Groundwater Captured by Extraction Wells**

- 9 Extraction Wells ~ 50 feet deep
- Treatment Building

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**Wisconsin Department of Natural Resources | dnr.wi.gov**
## JCI/Tyco’s Groundwater Extraction and Treatment System (GETS)

<table>
<thead>
<tr>
<th>WHAT IT CAN DO</th>
<th>WHAT IT WON’T DO</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Capture groundwater near Ditch B</td>
<td>➢ Be a comprehensive remedial action</td>
</tr>
<tr>
<td>✓ Reduce flow of groundwater into Ditch</td>
<td>➢ Will not fix the total plume</td>
</tr>
<tr>
<td>✓ Capture groundwater flowing from FTC</td>
<td>➢ Will not have a direct influence on deep groundwater</td>
</tr>
<tr>
<td>✓ Remove PFAS from the captured water</td>
<td>➢ Will not fix private wells</td>
</tr>
<tr>
<td>✓ Discharge treated water back to Ditch B</td>
<td>➢ Will not happen quickly – no time estimate for completion</td>
</tr>
<tr>
<td>✓ Keep similar baseflow in Ditch</td>
<td></td>
</tr>
<tr>
<td>✓ Lower surface water concentrations in Ditch</td>
<td></td>
</tr>
</tbody>
</table>

### Other Updates
Tyco Air Operation Permit Renewal

• 30-day public comment period will begin next week (March 22)
• Public may request a public hearing
• Permit and FAQ doc will be posted under the actions tab on the Marinette/Peshtigo webpage
• Message will be sent out to JCI subscriber list

Fish Data

• Surface water and fish data: Data Report Available (issued Nov 2020)
• Health Guide for Eating Fish in WI: Choose Wisely
• Green Bay and Menomonie River: PCB advisories in place
Upcoming Important Dates

March
• Draft air permit available for public comment on March 22, 2021

Other
• Public comment opportunities for permits associated with the GETS

May
• Next Listening Session

Get updates →
   → Join email subscription list

Ground Rules – Listening Session
• 3-mins per person → everyone has the opportunity to voice concerns
• Keep comments constructive
• Attack the problem not the person

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